

What the lighting industry requires from SSL.

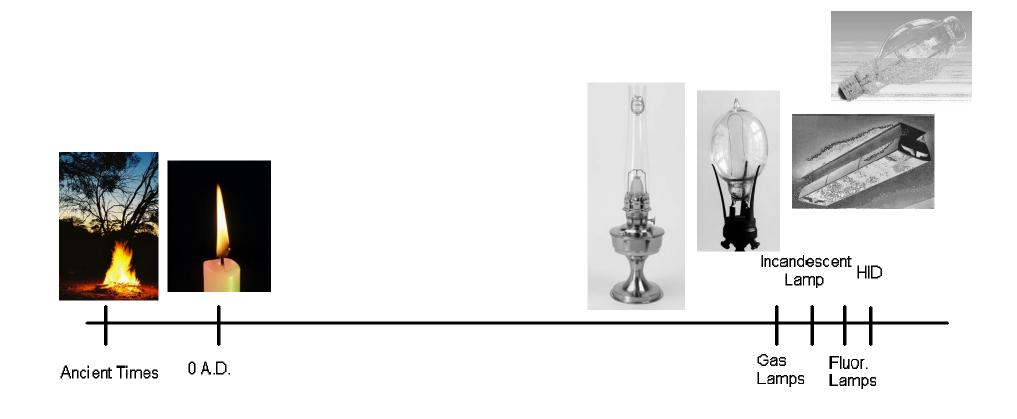
By Jeff Quinlan



Overview

- I. A look back
- II. Design considerations
- III. Turning features into product
- IV. Closing comments





I. A look back



II. Design Considerations

- Cost
- LLF Light Loss Factor
- SSL specific considerations

Cost

Total Cost of Ownership (TCO) =

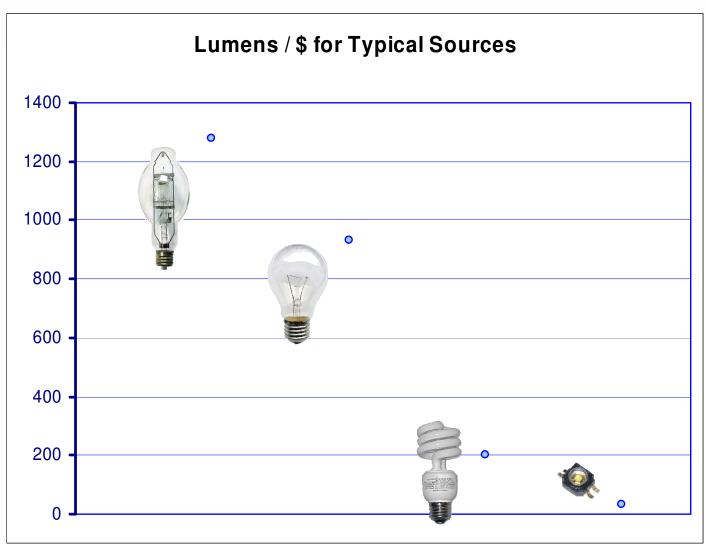
Initial Product Cost +

Instillation Cost +

Operation Cost +

Maintenance Cost

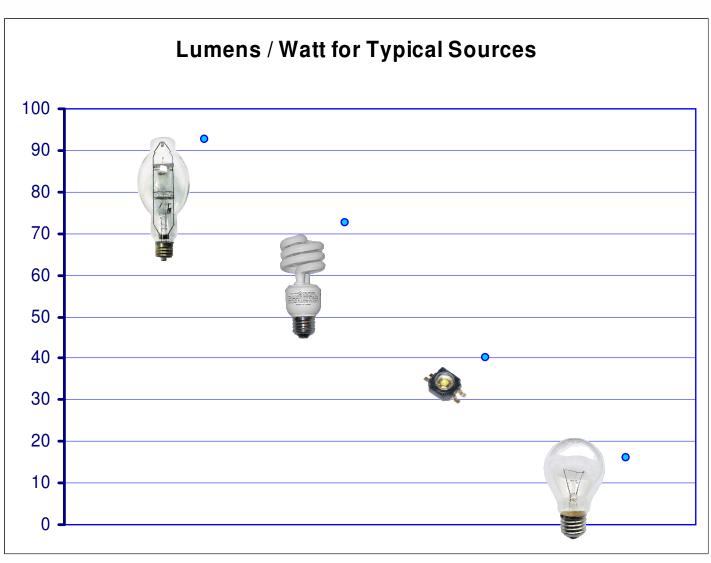
Initial Cost



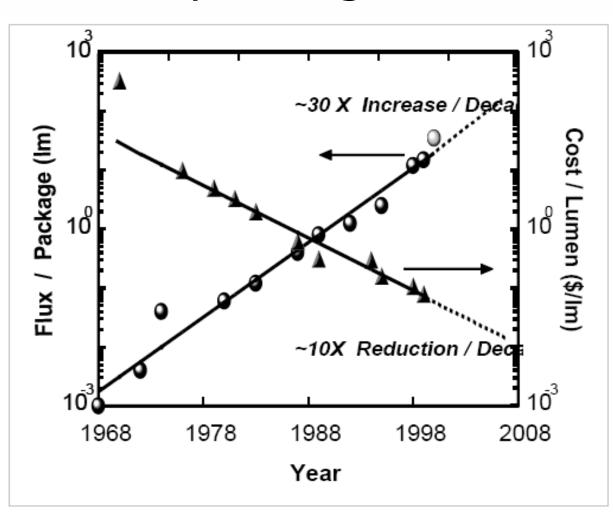
Installation Cost

- Ease of installation
- "Complete" Fixture
- Integration into standard controls

Operating Cost



Operating Cost



Maintenance Cost

- Product Performance
 - Light output
 - Electronics
- Product Maintenance
 - Service, Service
 - Modularity



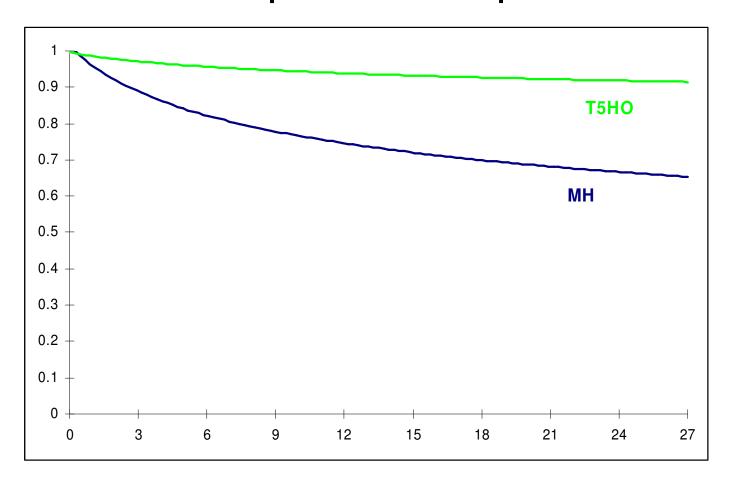
Maintenance Cost





LLF – Light Loss Factor

LLD – Lamp Lumen Depreciation



LLF – Light Loss Factor

- LATF Luminaire Ambient Temp. Factor
- EOF Equipment Operating Factor
- LBO Lamp Burnout





SSL Specific Design Factors

- Color
- Form factor
- Binning
- Long Life
- Lumen Depreciation

Color





Form Factor

- Applications where size is an issue
 - Small Plenums
 - ADA compliant
 - Embedded Products
- Applications where size is a feature
 - Decorative elements

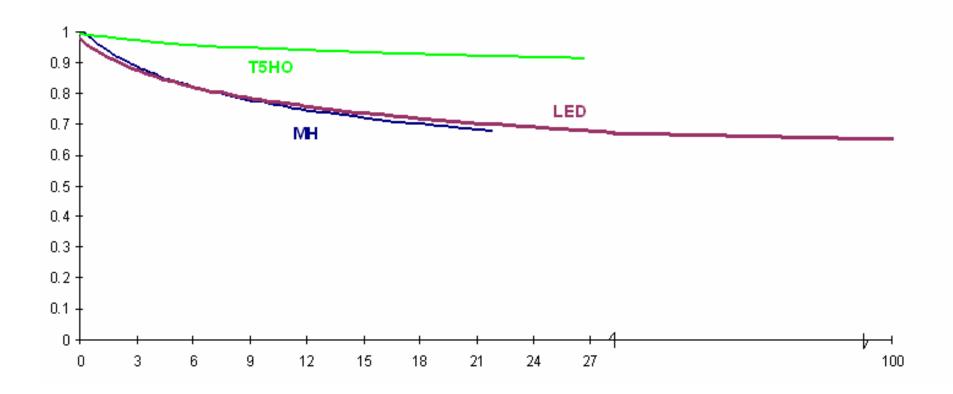
Binning



Long Life





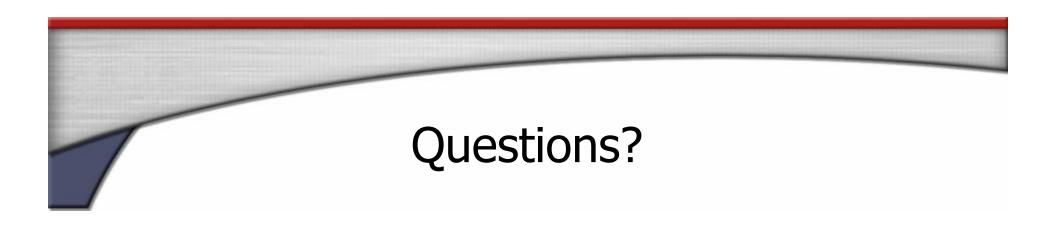


From Feature to Product

- Life –Bridges
- Life Step / In grade
- Life Emergency egress
- Form Track light
- Form Cove lighting

Closing Comment

- Standardization
- Modularity
- Understanding the Customer
- Collaborative Development



Their questions

- What do we want from a SSL manuf?
- What will it take to get ssl to market (Cost, perform, reliability)
- What is ABLs plans to take SSL to market? (New product, retrofit)
- Is the SSL market different?